NOVEMBER/DECEMBER 2024

CSEL64/BSEL64 — CELLULAR PHONES : PRINCIPLES AND PRACTICE (SBS IV)

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define cell.

2. What is called Handoff threshold?

3. Write the capabilities of pen-based input.

4. Mention the difference between low end and high end smart phones.

5. What is slow frequency hopping?

6. Mention the need of decoding.

7. Write the types of treats.

8. What do you mean by MMS?

9. What do you understand by WPAN standards?

10. Expand: TDMA.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss the power control in cell planning.

Or

(b) Enumerate network switching subsystem.

12. (a) Discuss the keypad input.

Or

(b) Explain briefly low end smart phones.

13. (a) Discuss the process of Digital speech coding.

Or

(b) Explain briefly the network management software.

14. (a) Describe the Mobile messaging.

Or

(b) Elucidate the message value chain.

15. (a) Outline the 3G devices and applications.

Or

(b) Write a note on CDMA one (2G), PDC 2(G), GPRS (2.5G), CDMA 2000 1 × (2.5G)

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the cellular network.

17. Discuss the pen-based input and voice input.

18. Describe the software enabled radio system.

19. Explain the mobile message oriented middlewere.

20. Describe the 1G, 2G standards.

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